

Date: Fri, 15 Apr 94 04:30:24 PDT
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V94 #98
To: Ham-Homebrew

Ham-Homebrew Digest Fri, 15 Apr 94 Volume 94 : Issue 98

Today's Topics:

 - RAMSEY PROBLEMS - HELP -
 Directly plotting etch-resist on PC boards?
 HELP : DSP FM transmitter/receiver
 Modifying VHF business band radio for ham use
 Output power measurement (2 msgs)
 POWER TRANSFORMER HELP NEEDED!!!
 R2 T2 pcb source wanted
 Tubes wanted

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 13 Apr 1994 21:13:46 -0400
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!
howland.reston.ans.net!paladin.american.edu!zombie.ncsc.mil!romulus.ncsc.mil!not-
for-mail@network.ucsd.edu
Subject: - RAMSEY PROBLEMS - HELP -
To: ham-homebrew@ucsd.edu

I have a problem with my Ramsey FX-223 220 Mhz amateur radio.
The receiver has a pronounced squeal when unsquelched and the
demodulated audio is extremely distorted. I suspected an IF
problem, and the Tech Support staff suggested I send these parts
in for testing:

Part#	Quantity	Description
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Y1 1 21.855 MHz 2nd Oscillator Crystal
FL1 1 21.4 MHz 1st IF Filter
FL2,FL3 2 455kHz 2nd IF Crystal Filters

I sent these parts in to Ramsey and they sent them back and told me that there was no problem with them. I would appreciate some help from anyone who has experienced a similar problem or has a suggestion. Feel free to E-mail direct or post back to this thread.

Carson (N7VDY)

--

* * Some day I will show my power by making all *
* cgarner@romulus.ncsc.mil * the ants in the world jump up and down at *
* * the same time. *

Date: Wed, 13 Apr 1994 17:52:50 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!emory!kd4nc!
ke4zv!gary@network.ucsd.edu
Subject: Directly plotting etch-resist on PC boards?
To: ham-homebrew@ucsd.edu

In article <2ogqva\$2bc@search01.news.aol.com> jimn0oct@aol.com (JimN00CT) writes:
>the best commonly available plastic to use in the laser printer would be the
>kind that is designed to be run through copiers to make overhead projectoer
>films. I have has some success with this. The Tech-2000 stuff didn't work at
>all.

Don't know about Tech-2000, but TEC-200 film works OK. But as you note, Avery overhead transparency film works fine, and is cheaper and easier to get.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 14 Apr 94 02:36:57 GMT
From: agate!dog.ee.lbl.gov!ihnp4.ucsd.edu!swrinde!cs.utexas.edu!
howland.reston.ans.net!vixen.cso.uiuc.edu!ux1.cso.uiuc.edu!
plee@ucbvax.berkeley.edu

Subject: HELP : DSP FM transmitter/receiver
To: ham-homebrew@ucsd.edu

This been the largest information system in the world, I thought I can ask for information/advice on building FM transmitter/receiver with DSP microprocessor chips.

I specially need advice on FM detection algorithms.

Any help would be greatly appreciated.

Peter Lee
URH 264 Townsend
1010 W. Illinois St.
URBANA, IL 61801
(217) 332-4091

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\_ ( _ ) \_____| ( _ ) _~
      ~\___/~~~~~\___/
Internet: p-lee5@uiuc.edu
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P. Lee

Date: 14 Apr 94 17:11:37 GMT
From: agate!howland.reston.ans.net!gatech!usenet.ins.cwru.edu!slc6!
trier@ucbvax.berkeley.edu
Subject: Modifying VHF business band radio for ham use
To: ham-homebrew@ucsd.edu

In article <2ojlig\$m0k@senator-bedfellow.mit.edu>,
Chris Pak <crispy@space.mit.edu> wrote:
>I was wondering if you can put in a send and receive crystal (144 to 148 Mhz)
>into the business band transceiver and use it as a ham?

It's quite possible. Conversion of commercial and military gear to ham frequencies is common. Moving commercial VHF-high gear to 2 meters is popular.

Whether your particular radio will work effectively on 2m is a good question. It depends on the particular radio. Post the make, model, vintage (if possible) and serial number (if possible) to rec.radio.amateur.equipment and it is fairly likely that someone will be able to tell you if the conversion can be done. If there are any option boards added to the gear, mention them, too. They can be important.

If you decide to try the conversion, the thing you need most is a service manual for the radio. That is usually available from the manufacturer.

It is often get to hire a commercial radio shop to retune the radio into the ham bands, if you don't want to do it yourself.

Stephen

--

Stephen Trier KB8PWA "It don't mean a thing if it ain't got that
Other: trier@ins.cwru.edu certain je ne sais quoi."
Home: sct@po.cwru.edu - Peter Schickele

Date: Wed, 13 Apr 1994 10:33:03 +0000
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!asuvax!pitstop.mcd.mot.com!mcdphx!
schbbs!bord.mdisea@network.ucsd.edu
Subject: Output power measurement
To: ham-homebrew@ucsd.edu

I am wondering how to measure an output power greater than 1kW on VHF using a BIRD 43.

There is a BIRD slug available but that's a 2.5kW peak one.

Does anyone know the subtile meaning about this 'peak' notice.

Regards
Jean-marc

mail : Jean-Marc BORD-C15201@email.com

dsphdi

Date: Thu, 14 Apr 1994 09:51:51 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!emory!
rsiatl!ke4zv!gary@network.ucsd.edu
Subject: Output power measurement
To: ham-homebrew@ucsd.edu

In article <9404131033.AA03953@bord.mdisea> bord@mdd.comm.mot.com (Jean-marc BORD / F1HDI) writes:

>I am wondering how to measure an output power greater than 1kW on VHF using a
>BIRD 43.

>There is a BIRD slug available but that's a 2.5kW peak one.

>Does anyone know the subtile meaning about this 'peak' notice.

The problem with attempting to measure CW power greater than 1 kW with a Bird 43 at VHF is that RG-8 sized line isn't rated to carry more power than that at VHF. To measure higher power, you need a thruline meter with a more capable thruline section. Dielectric makes thrulines for up to at least 100,000 watts at VHF, but we're talking 8 inch diameter rigid line sections now. Still, Bird has made higher power slugs for the 43, I have an old pair of 10 kW elements. I think they stopped selling them because too many line sections got fried.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 14 Apr 94 02:55:30 EST

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!news.umbc.edu!eff!news.kei.com!yeshua.marcam.com!zip.eecs.umich.edu!newsxfer.itd.umich.edu!gumby!wmichgw!x90galbraith1@network.ucsd.

Subject: POWER TRANSFORMER HELP NEEDED!!!

To: ham-homebrew@ucsd.edu

Hello!

I just picked up an old (early 70s) Bell & Howell tube-type scope. It was cheap, but the power transformer is SHOT (it snap, crackles, and pops). There is no manufacturer printed on it, but there is a model #. I do not know what the secondaries are wound for, except there are twelve leads coming out of the transformer (2 being the 117vac in).

Is there somewhere I can get a replacement?

Is there someone who will rewind it?

Any help would be returned by countless blessings!

73, Chris, KA8WFC

Date: Thu, 14 Apr 1994 13:23:47 GMT

From: news.mentorg.com!srp!jbate@uunet.uu.net

Subject: R2 T2 pcb source wanted

To: ham-homebrew@ucsd.edu

I'm trying to find a source for the R2 and T2 pcb as mentioned in the 1/93 and 4/93 QST articles (by Rick Campbell).

The source given in the articles seems to have disappeared and left no forwarding address.

The last known address was:
Applied Radio Science
POB 225
Houghton, MI 49931

Anyone know of a source for these boards?

john, ki7hs

Date: Wed, 13 Apr 1994 21:52:22 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!cs.utexas.edu!wotan.compaq.com!
twisto.eng.hou.compaq.com!news@network.ucsd.edu
Subject: Tubes wanted
To: ham-homebrew@ucsd.edu

Wanted:

Any quantity of new or used vacuum tubes to assist me in my hobby of restoring tube-type receivers.

David, KA5MSL

Pse reply via EMAIL or (713) 378-7014, (713) 627-8813.

Date: Wed, 13 Apr 1994 18:08:29 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!
news.umbc.edu!eff!news.kei.com!uhog.mit.edu!nntp.club.cc.cmu.edu!
cantaloupe.srv.cs.cmu.edu!dolphin!ed@network.ucsd.
To: ham-homebrew@ucsd.edu

References <1994Apr9.153927.8548@vlsi.polymtl.ca>, <2oen8u\$mn1@acorn.acorn.co.uk>,
<2oevd0\$m8g@apakabar.cc.columbia.edu>n
Subject : Re: Directly plotting etch-resist on PC boards?

I have used this to make prototype double sided pcboards.

I got better results by printing pattern to paper then shooting with accurate photocopier. You can lay the clear page over top of the original to check for accuracy.

I was doing double sided boards. The biggest problem I had was protecting the toner layer until I got the "Iron ons" home.

I used wifes standard steam Iron.

Drilling the holes was no joy either. For prototypes its good. If you want to make something double sided, & through hole I would recommend Ironing on 1 side, drilling holes In the corners and using the holes to line up on for the second side. You WILL HAVE to use a lacquer pen to touch up scratches & holes & lift backs before etching. But it beats hand drawing the thing.

I think that if you are making more than 5 of the same, use the photographic process.

Ed@fore.com

End of Ham-Homebrew Digest V94 #98
